



STIC Search Report

EIC 2100

STIC Database Tracking Number: 20397

TO: Cam-Linh T Nguyen
Location: RND 3A35
Art Unit: 2161
Thursday, October 05, 2006

Case Serial Number: 10/042316

From: Ruth E. Spink
Location: EIC 2100
RND-4B31
Phone: 23524

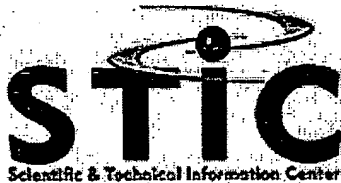
Ruth.spink@uspto.gov

Search Notes

Cam-Linh- Attached is the foreign patent and NPL search for the above referenced case. Be sure to contact me if you wish to refocus this search.

Ruth





203907

STIC EIC 2100 Search Request Form

Today's Date: 10/5/06

What date would you like to use to limit the search?

Priority Date: 11/2/01 Other: _____

Name Nguyen, Cam Linh
AU 2161 Examiner # 79821
Room # RND-3A35 Phone 2-4024
Serial # 10/042,316

Format for Search Results (Circle One):

☒ PAPER ☐ DISK ☐ EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) ☒ YES ☐ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES NO

- Register .. (Document , file , record)
- Access control with (character and ID)

STIC Searcher Ruth Spink Phone 2-3524
Date picked up 10/5/06 Date Completed 10/5/06





STIC Search Results Feedback Form

EIC 2100

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Alyson Dill, EIC 2100 Team Leader
272-3527, RND 4B28

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 2133

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(Journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 RND, 4B28



Set	Items	Description
S1	1947099	DOCUMENT? ? OR DOCUMENTATION? ? OR TEXT OR FILE OR FILES OR RECORD? ?
S2	1874395	DATABASE? ? OR DB OR DBMS OR RDBMS OR OODB OR DATA()BASE? ? OR REPOSITOR? OR DIRECTORY OR DIRECTORIES OR TABLE? ? OR LIST? ? OR LISTING? ? OR RECORD? ? OR CATALOG? ? OR CATALOGUE? ? OR REGISTER? ? OR REGISTRY OR REGISTRIES OR ACL
S3	463681	(ACCESS? OR SECURITY OR AUTHORI?E? ? OR AUTHORI?ING OR AUTHORI?ATION? ? OR AUTHENTICATE? ? OR AUTHENTICATING OR AUTHENTICATION) (3N) (LEVEL? ? OR CONTROL? OR LIMIT??? OR LIMITATION? ? OR RESTRICTION? ? OR RESTRICT???) OR RIGHTS OR PRIVILEGES OR PERMISSION?
S4	13111	S1 (3N) (REGISTER OR REGISTERS OR REGISTERED)
S5	1196223	CHARACTER? ? OR STRING OR WORD OR WORDS OR CODE OR CODES OR LETTER? ?
S6	671616	ID OR IDS OR IDENTIFIER? ? OR IDENTIFICATION
S7	643573	S1 (10N) S2
S8	9881	S3 (10N) S5
S9	854	S8 (10N) S1
S10	33460	S6 (3N) (ADD OR ADDS OR ADDED OR ADDING OR ADDITION OR APPEND?? OR APPENDING OR INSERT?? OR INSERTING OR INSERTION? ? OR (PUT OR PUTTING OR PLACE? ? OR PLACING) () (IN OR INTO))
S11	2035	S10 (10N) S1
S12	1	S9 (30W) S11
S13	87187	S5 (10N) S1
S14	1564	S13 (30N) S3
S15	292	S13 (30W) S10
S16	4	S15 (30N) S3
S17	3	S16 NOT S12
S18	3	IDPAT (sorted in duplicate/non-duplicate order)
S19	3	IDPAT (primary/non-duplicate records only)
S20	667	S14 (30N) (S7 OR S4)
S21	671527	S5 (5N) (IN OR INCLUDE? ? OR INCLUDING OR INCLUSION OR THERE OR DETECT? ? OR DETECTING OR DETECTION OR FOUND OR FIND OR FINDING OR PRESENT OR APPEAR???)
S22	48946	S21 (10N) S1
S23	768	S22 (30N) S3
S24	352	S23 (30N) (S7 OR S4)
S25	254	S24 AND IC=G06F
S26	3835	S8 (3N) (IN OR INCLUDE? ? OR INCLUDING OR INCLUSION OR THERE OR DETECT? ? OR DETECTING OR DETECTION OR FOUND OR FIND OR FINDING OR PRESENT OR APPEAR??? OR (LOOK OR LOOKING) () FOR OR LOCATE? ? OR LOCATING OR DISCOVER?? OR DISCOVERING OR EXISTENCE OR EXISTS
S27	1237	S26 (10N) (S1 OR ARTICLE? ? OR PAPER? ? OR THESIS OR THESES OR DISSERTATION? ? OR ESSAY? ? OR MANUSCRIPT? ? OR TRANSCRIPT? ? OR DATA OR DATASET? ? OR CONTENT? ?)
S28	180	S27 (30N) (S7 OR S4)
S29	126	S28 AND IC=G06F
S30	52	S28 (30N) S6
S31	106	S29 AND AY=1963:2001
S32	40	S30 AND AY=1963:2001
S33	40	IDPAT (sorted in duplicate/non-duplicate order)
S34	40	IDPAT (primary/non-duplicate records only)
S35	38	S34 NOT (S12 OR S19)

File 348:EUROPEAN PATENTS 1978-2006/ 200639
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File 349:PCT FULLTEXT 1979-2006/UB=20060928UT=20060921
(c) 2006 WIPO/Thomson

File 350:Derwent WPIX 1963-2006/UD=200662
(c) 2006 The Thomson Corporation

12/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01342440

SYSTEM FOR FACILITATING GAME PLAY IN AN ELECTRONIC LOTTERY GAME NETWORK
SYSTEM ZUR VEREINFACHUNG DES SPIELENS IN EINEM ELEKTRONISCHEN
LOTTERIENETZWERK

SYSTEME FACILITANT LE DEROULEMENT DU JEU DANS UN RESEAU DE JEUX DE LOTERIE
ELECTRONIQUES

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1265679 A1 021218 (Basic)
EP 1265679 B1 050629
WO 2001060472 010823

APPLICATION (CC, No, Date): EP 2001910688 010214; WO 2001US4766 010214

PRIORITY (CC, No, Date): US 503651 000214

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): A63F-009/24; A63F-003/08

CITED PATENTS (EP B): US 4494197 A; US 5324035 A; US 6017032 A

CITED PATENTS (WO A): US 4494197 A ; US 6017032 A

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	011017	A1	International application. (Art. 158(1))
Application:	011017	A1	International application entering European phase
Application:	021218	A1	Published application with search report
Examination:	021218	A1	Date of request for examination: 20020913
Change:	030102	A1	Inventor information changed: 20021107
Assignee:	030806	A1	Transfer of rights to new applicant: Multimedia Games Inc. (3131242) 206 S. Wild Basin Road, Building B, 4th Floor Austin, TX 78746 US
Search Report:	041020	A1	Date of drawing up and dispatch of supplementary:search report 20040902
Change:	041020	A1	International Patent Classification changed: 20040827
Change:	041020	A1	International Patent Classification changed: 20040827
Change:	050105	A1	International Patent Classification changed: 20041117
Grant:	050629	B1	Granted patent
Lapse:	051228	B1	Date of lapse of European Patent in a contracting state (Country, date): FI 20050629,
Change:	060329	B1	Title of invention (German) changed: 20060329
Change:	060329	B1	Title of invention (English) changed: 20060329
Change:	060329	B1	Title of invention (French) changed: 20060329
Change:	060405	B1	Title of invention (German) changed: 20060405
Change:	060405	B1	Title of invention (English) changed: 20060405
Change:	060405	B1	Title of invention (French) changed: 20060405
Change:	060607	B1	Title of invention (German) changed: 20060607
Change:	060607	B1	Title of invention (English) changed: 20060607
Change:	060607	B1	Title of invention (French) changed: 20060607

Change: 060628 B1 Title of invention (German) changed: 20060628
Change: 060628 B1 Title of invention (English) changed: 20060628
Change: 060628 B1 Title of invention (French) changed: 20060628
LANGUAGE (Publication,Procedural,Appplication): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200526	1538
CLAIMS B	(German)	200526	1368
CLAIMS B	(French)	200526	1673
SPEC B	(English)	200526	6263
Total word count - document A			0
Total word count - document B			10842
Total word count - documents A + B			10842

...SPECIFICATION and at step 48 communicates that new counter value to player terminal 14 as the **record** identifier 32.

In response to the additional **record** identifier 32 from the additional **level** game, **record access** program **code** at player terminal 14 accesses the identified game **record** 25 at step 52. The display control program code operating at player terminal 14 then

19/5,K/3 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00327803 **Image available**

REMOTE ACCESS SYSTEMS

SYSTEMES D'ACCES A DISTANCE

Patent Applicant/Assignee:

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DESLANDES Jeffrey Edward,
BALL Robert Malcolm,
TRICKER Dennis John,
NOLDE Keith Eric,

Inventor(s):

MONTGOMERIE Alastair,
DESLANDES Jeffrey Edward,
BALL Robert Malcolm,
TRICKER Dennis John,
NOLDE Keith Eric,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9610313 A1 19960404
Application: WO 95GB2301 19950927 (PCT/WO GB9502301)
Priority Application: GB 94307055 19940927; US 9511 19950407

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP
KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK
TJ TM TT UA UG US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT
LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class (v7): H04M-011/00

International Patent Class (v7): H04L-12:24

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13030

English Abstract

A management system (A1) provides a remote access service to units of equipment at distributed locations of a communications network (A4). For instance, it can provide automatic meter reading over a PSTN for utility companies (A5). The management system (A1) initiates calls over the network (A4) to selected units, usually pre-determined, in response to call requests, and can provide considerable functionality such as authentication and batch processing of the request. Conflict with ordinary traffic on the network (A4) can be avoided by monitoring for ordinary traffic calls and clearing down any existing conflicting remote access calls or blocking any requested potentially conflicting remote access calls. Uncompleted or blocked remote access calls are automatically re-scheduled by the management system (A1).

French Abstract

Un systeme de gestion (A1) permet d'accéder a distance a des unites d'equipement situees a des emplacements repartis sur un reseau de telecommunications (A4). Il permet, par exemple, a des societes de service public d'effectuer une lecture automatique de compteurs a travers un reseau telephonique commute public (RTPC). Ce systeme de gestion (A1) lance des appels a travers le reseau (A4) vers des unites selectionnees, normalement predeterminees, en reponse a des demandes d'appel et peut realiser des performances efficaces, telles que l'authentification et le traitement groupe de la demande. Il permet d'eviter des incompatibilites de trafic ordinaire sur le reseau (A4) au moyen du controle d'appels de trafic ordinaire et de la liberation de tous appels incompatibles d'accès

a distance en cours ou du blocage de tous appels demandes d'accès a distance potentiellement incompatibles. Les appels d'accès a distance non établis ou bloqués sont reprogrammés automatiquement par le système de gestion (A1).

Fulltext Availability:
Detailed Description

Detailed Description

... data interpreters associated with both the TP 41 and the TIU 63, which interpret each **character** in turn on receipt of a data **record**.

Table 2 lists all the replaceable parameter types which have been defined for this example.

Character Meaning Source of variable Parameter
data type

inserted

I TIU **ID** From TSIVIS TIU control

k Key string used for Internally TIU **control**

authenticating TIU using generated by TP

a challenge/response
sequence

p Port number to be used...

35/5,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01504244

DATA ACCESS MANAGEMENT SYSTEM AND MANAGEMENT METHOD USING ACCESS CONTROL
TICKET

DATENZUGRIFFSMANAGEMENTSYSTEM UND MANAGEMENTVERFAHREN MIT EINEM
ZUGRIFFSSTEUERTICKET

SYSTEME DE GESTION D'ACCES AUX DONNEES ET PROCEDE DE GESTION UTILISANT UN
BILLET DE COMMANDE D'ACCES

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1303075 A1 030416 (Basic)
WO 2002076013 020926

APPLICATION (CC, No, Date): EP 2002702791 020307; WO 2002JP2113 020307

PRIORITY (CC, No, Date): JP 200173353 010315

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04L-009/00; G09C-001/00; G06F-012/14;
G06F-015/00; G06F-017/60; G06F-019/00; G06F-017/00; G06K-019/00

ABSTRACT EP 1303075 A1

To provide a data access management system that enables access control management for data files stored in a memory of a device. The system manages data access processing performed by an access unit for a memory-loaded device, and issues a service permission ticket (SPT), which serves as an access control ticket in which an access mode to be accepted for the access unit, such as a reader/writer, is set. The memory-loaded device receives the service permission ticket (SPT) from the access unit, and performs processing according to the access mode indicated in the service permission ticket (SPT). The service permission tickets (SPTs) in which access modes to be accepted for the access units are set are individually issued according to the access units. Accordingly, various modes of access according to the access units can be executed.

ABSTRACT WORD COUNT: 137

NOTE:

Figure number on first page: 0001

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 021120 A1 International application. (Art. 158(1))

Application: 021120 A1 International application entering European phase

Application: 030416 A1 Published application with search report

Examination: 030416 A1 Date of request for examination: 20021031

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200316	8394
SPEC A	(English)	200316	79434

Total word count - document A 87828
Total word count - document B 0
Total word count - documents A + B 87828

...SPECIFICATION ticket. The memory-loaded device executes mutual authentication according to the mutual-authentication-mode designation **data** of the service **permission** ticket (SPT), and performs processing according to a description **in** the received ticket on the condition that the mutual authentication is successfully conducted.

According to...

...according to the access mode, and also performs read or write processing on the target **file** that is set as the target **file** identifier **in** the service **permission** ticket (SPT) according to the read or write permission **data** set in the service permission ticket (SPT).

According to an embodiment of the memory-loaded device of the present invention, the service permission ticket (SPT) contains a plurality of **file identifiers** for identifying a plurality of data files to be accessed, one of the plurality of...

...embodiment of the memory-loaded device of the present invention, the control means generates a **file open table** in which the **file** identifier, which serves as ID data of a file that has been subject to **file** open processing performed based on the service **permission** ticket (SPT) received during a session with the access unit is related to the access...

...a command received from the access unit is to be executed by referring to the **file open table**.

According to an embodiment of the memory-loaded device of the present invention, the memory...permission ticket from the access unit, and performs processing according to the access mode indicated **in** the service **permission** ticket (SPT).

According to an embodiment of the **data** access management method of the present invention, the service permission ticket (SPT) contains a **file identifier** for identifying a data file to be accessed. The memory-loaded device receives the service...

...method of the present invention, the service permission ticket (SPT) contains a plurality of **file identifiers** for identifying a plurality of data files to be accessed, one of the plurality of **file identifiers** being set as a target **file identifier** so that read or write permission data for a target file is stored, and, as...

...mode of the other data file, encryption processing using an encryption key stored in the **data file** is set. The memory-loaded device receives the service **permission** ticket (SPT) from the access unit, and performs a reading operation for the target file...

...the condition that the mutual authentication is successfully conducted.

According to an embodiment of the **data** access management method of the **present** invention, the service **permission** ticket (SPT) contains ticket-verification designation **data** that designates a verification mode of the service permission ticket (SPT) received by the

35/5,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01297082

TUNING OF MULTIPLE APPLICATION ENABLED DIGITAL COMMUNICATION TERMINALS TO
ACCESS SERVICES

ABSTIMMUNG DIGITALER KOMMUNIKATIONSSENDGERATE MIT MEHRFACHANWENDUNG FUR
ZUGANGSDIENSTE

REGLAGE DE TERMINAUX DE COMMUNICATION NUMERIQUES POUR APPLICATIONS
MULTIPLES SUR DES SERVICES D'ACCES

PATENT ASSIGNEE:

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INVENTOR:

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LEGAL REPRESENTATIVE:

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Uhlandstrasse 14 c, 70182 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 1222818 A2 020717 (Basic)

EP 1222818 B1 031203

WO 2001031922 010503

APPLICATION (CC, No, Date): EP 2000992758 001019; WO 2000US41285 001019

PRIORITY (CC, No, Date): US 161174 P 991022

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;

IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; ES; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-007/16

CITED PATENTS (EP B): EP 698999 A; EP 834798 A; US 5167035 A; US 5208665 A;

US 5850218 A; US 5919247 A

CITED REFERENCES (EP B):

PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31)

& JP 08 149096 A (SONY CORP), 7 June 1996 (1996-06-07);

ABSTRACT WORD COUNT: 6982

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010627 A2 International application. (Art. 158(1))

Application: 010627 A2 International application entering European
phase

Application: 020717 A2 Published application without search report

Examination: 020717 A2 Date of request for examination: 20020419

Grant: 031203 B1 Granted patent

Oppn None: 041124 B1 No opposition filed: 20040906

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200349	1474
CLAIMS B	(German)	200349	1361
CLAIMS B	(French)	200349	1620
SPEC B	(English)	200349	4979
Total word count - document A			0
Total word count - document B			9434
Total word count - documents A + B			9434

...SPECIFICATION EPG applications can be enabled on the newer terminals
without any need to tune to a channel for a source or service.

For example, the VCT(underscore)source(**underscore**)ID(underscore)count
field and the VCT(underscore)app(underscore) ID (underscore)count fields
in the VAT record 's control word , viz .,
virtual(underscore)application(underscore) control (underscore) word ,
may specify that **there** are no VCT(underscore)source(underscore) ID

fields or VCT(underscore)application(underscore) ID fields present in the VAT record . Therefore, the traditional EPG application can run as before in a MAM environment.

The services...

35/5,K/12 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00974244 **Image available**

DOMESTIC ORIGINATION TO INTERNATIONAL TERMINATION COUNTRY SET LOGIC
LOGIQUE D'ENSEMBLE DE PAYS DE POINTS D'ORIGINE LOCALE A UNE TERMINAISON
INTERNATIONALE

Patent Applicant/Assignee:

WORLD COM INC, 500 Clinton Center Drive, Clinton, MS 39056, US, US
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Inventor(s):

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Legal Representative:

GROLZ Edward W (agent), Scully, Scott, Murphy & Presser, 400 Garden City
Plaza, Garden City, NY 11530, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200303755 A2-A3 20030109 (WO 0303755)

Application: WO 2002US15443 20020515 (PCT/WO US0215443)

Priority Application: US 2001859296 20010517

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): H04M-003/00

International Patent Class (v7): H04M-015/00; H04M-017/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6500

English Abstract

A method and device for preventing fraud in international calls in a long-distance telecommunications system, where selected customers can avoid fraud control blocks and greater granularity is achieved in blocking international destinations. In the method and device, an override flag is created in the records of the Billing Number Screening (BNS) database (410). When a call is made using a billing number whose corresponding record has the override flag set (417), the call is not stopped by fraud control blocks on certain international destinations. In addition, international destinations can be blocked with greater specificity because a Country Set Logic (CSET) field (425, 435) is added to the International City Code Database. The addition of CSET (425, 435) to this database allows particular international city destinations to be blocked from certain origin points.

French Abstract

L'invention concerne un procede et un dispositif permettant de prevenir la fraude au niveau des appels internationaux dans un systeme de telecommunications longue distance. Les clients choisis peuvent eviter des blocs de controle de fraude, une plus grande granularite etant ainsi realisee en ce qui concerne le blocage de destinations internationales. Selon le procede et le dispositif, on cree un repere de priorite dans les enregistrements de la base de donnees de filtrage de numeros de facturation (BNS). Lorsqu'un appel est effectue a l'aide d'un numero de

facturation dont l'enregistrement correspondant presente un ensemble de repere de priorite, ledit appel n'est pas arrete par des blocs de controle de fraude sur certaines destinations internationales. En outre, les destinations internationales peuvent etre bloquee avec une plus grande specificite, car un champ de logique d'ensemble de pays (CSET) est ajoute a la base de donnees internationale de codes de villes. L'ajout de CSET a cette base de donnees permet de bloquer certaines destinations internationales de villes a partir de certains points d'origine.

Legal Status (Type, Date, Text)

Publication 20030109 A2 Without international search report and to be republished upon receipt of that report.

Examination 20030619 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20030710 Late publication of international search report

Republication 20030710 A3 With international search report.

Fulltext Availability:

Claims

Claim

... is a special service call, and there is a label field in various call processing **databases**, including an **access - level database**, containing **records** keyed to at least one access **code** used in obtaining the special service, an exchange-level **database**, containing **records** keyed to at least one

1 - 15 telephone exchange, and an Automatic Number Identifier (ANI)-level **database**, containing **records** keyed to at least one ANI.

9 The method as recited in claim 9, further...call processing of said call, the international destination of said call being associated with said **record** -, and means for blocking the call if the determining means determines that there is a match.

16 The device as recited in claim 15, further comprising:

an **access - level database**, containing **records** keyed to at least one access

code used in obtaining the special service, an exchange- level **database**, containing **records** keyed to at least one telephone exchange;

an Automatic Number Identifier (ANI)-level **database**, containing **records**

keyed to at least one ANI; and

means for determining if one or more labels...

35/5,K/18 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00788789 **Image available**

**METHOD AND APPARATUS FOR PROVIDING CONTROLLED ACCESS TO SOFTWARE OBJECTS
AND ASSOCIATED DOCUMENTS**

**PROCEDE ET DISPOSITIF DE CONTROLE D'ACCES A DES OBJETS LOGICIELS ET
DOCUMENTS ASSOCIES**

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, US (Residence), US (Nationality), (For all designated states except:
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Patent Applicant/Inventor:

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SADHURREDLY Rao, 1723 Fumia Court, San Jose, CA 95131, US, US (Residence)
, US (Nationality), (Designated only for: US)

Legal Representative:

STEVEN David R (agent), Gray Cary Ware & Freidenrich LLP, 400 Hamilton
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200122299 A1 20010329 (WO 0122299)

Application: WO 2000US26195 20000923 (PCT/WO US0026195)

Priority Application: US 99401251 19990923

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10555

English Abstract

A method and device such as a database for storing and providing
controlled access to objects and associated documents by multiple users
according to predetermined privileges set by the owner, or host, of the
stored information. Individual users (102), or guests (154), can be given
access to the objects, their attributes and associated documents as
determined by the host of the information. The host of the information
can set up access privileges based on any type of relationship (116).
This is particularly useful in complex business relationships between a
host and a plurality of users, both of which may be sensitive about their
trade secrets and other confidential information.

French Abstract

La presente invention concerne un procede et un dispositif tel qu'une
base de donnees permettant de memoriser et d'assurer un controle d'accès
a des objets et des documents associes concernant, pour des acces se
faisant par de multiples utilisateurs selon des regles de privileges
definies par le proprietaire ou hôte de l'information memorisee. Les
utilisateurs individuels (102) ou les hotes invites (154) peuvent

disposer de droits d'accès aux objets, à leurs attributs et documents associés dans la mesure où l'information hôte l'autorise. L'hôte de l'information peut définir des privilèges d'accès sur la base de tous types de relations (116). Ceci est particulièrement utile dans des relations d'affaire complexes entre un hôte et une pluralité d'utilisateurs, les uns et les autres étant susceptibles de détenir des informations sensibles confidentielles voire secrètes.

Legal Status (Type, Date, Text)

Publication 20010329 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... computer 152 that may be operated by a guest user in accessing objects and associated **documents** in application **data base** 144. Guest computer 152 **includes** guest **privileges code** 300 may be similar to the host's guest **privileges code** 210 (Figure 2). Guest privileges code 300 includes a Guest **ID** 302 that
privi I I
identifies the guest when attempting to access a host object...

35/5,K/24 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00579182 **Image available**

**METHOD AND SYSTEM FOR REGISTERING AND LICENSING WORKS OVER A NETWORK
PROCEDE ET SYSTEME PERMETTANT D'ENREGISTRER DES OEUVRES DE L'ESPRIT ET DE
CONCORDER DES LICENCES RELATIVES A CES OEUVRES SUR UN RESEAU**

Patent Applicant/Assignee:

THE HARRY FOX AGENCY INC,

Inventor(s):

MURPHY Edward P,

BURNS Christopher,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200042555 A1 20000720 (WO 0042555)

Application: WO 2000US835 20000112 (PCT/WO US0000835)

Priority Application: US 99115606 19990112

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class (v7): G06F-017/60

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 26451

English Abstract

The system and method of the invention generally provides for registering works of authorship in an online database (100) and providing licensing information about authorship with several rights agencies, royalty collecting societies and copyright offices, and the online database (100) in a single process. The invention allows individuals to identify a particular work of authorship form among many close variants; analyzing the license rights (143-148) necessary for a particular use of the work by an individual in a particular territory, determining the source of the licensing rights (151) in that territory and forwarding a request for a license to that source (152). Finally, in a preferred embodiment, the invention may issue a license (154) to an individual for the use of a work contemplated.

French Abstract

La presente invention concerne, en general, un systeme et un procede qui permettent d'enregistrer en un seul processus des oeuvres de l'esprit dans une base de donnees en ligne (100) et aupres de plusieurs agences d'octroi de licences, de societes de perception de droits de reproduction et de bureaux de droits d'auteur, et de fournir des informations concernant la concession de licences relatives aux oeuvres enregistrees. L'invention permet a des personnes d'identifier une oeuvre de l'esprit particuliere parmi de nombreuses variantes proches, d'analyser les droits de licence (143-148) necessaires a une utilisation precise de l'oeuvre par une personne sur un territoire determine, a identifier la source des droits de licence (151) sur ce territoire determine et a transmettre une demande de licence a ladite source (152). Enfin, dans un mode de realisation preferre, l'invention peut delivrer a une personne une licence (154) qui lui permettra d'utiliser une oeuvre souhaitee.

Fulltext Availability:

Detailed Description

Detailed Description

... linking the user to the lyrics of the set of works to search within.

Account **ID** : The Account **ID** of the account that is authorized to update this **record** .

Last Update: The date on which this song **record** was last modified.

Last Update **ID** : The password used by the person who last modified this **record** .

C. Licensing Information

In addition to the descriptive information, the song **record** has several **data** fields used in the **rights** request process.

Harry Fox License: This field contains a **code** that indicates whether the song is licensed by Harry Fox.

Rights source information: Rights requests are sent to the national agencies and rights societies around the...

35/5,K/27 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00498865

PROTECTION DOMAINS TO PROVIDE SECURITY IN A COMPUTER SYSTEM
DOMAINES PROTEGES ASSURANT LA SECURITE DE SYSTEMES INFORMATIQUES

Patent Applicant/Assignee:

SUN MICROSYSTEMS INC,

GONG Li,

Inventor(s):

GONG Li,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9930217 A1 19990617

Application: WO 98US26074 19981210 (PCT/WO US9826074)

Priority Application: US 97988439 19971211

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GD GE GH GM
HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

Main International Patent Class (v7): G06F-001/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8788

English Abstract

A method and apparatus are provided for maintaining and enforcing security rules using protection domains. As new code arrives at a computer, a determination is assigned to a protection domain based on the source from which the code is received. The protection domain establishes the permissions that apply to the code. In embodiments where the code to be executed by the computer belongs to object classes, an association is established between the protection domains and the classes of objects. When an object requests an action, a determination is made as to whether the action is permitted based on the class to which the object belongs and the association between classes and protection domains.

French Abstract

L'invention porte sur un procede et un appareil appliquant et renforçant des regles de securite a l'aide de domaines proteges. Lorsqu'un nouveau code parvient a un ordinateur, une decision s'applique a un domaine protege en fonction de la source d'ou emane le code. Le domaine protege etablit les permissions s'appliquant au code. Dans les realisations ou le code devant etre execute par l'ordinateur appartient a des classes d'objets, une association s'etablit entre les domaines proteges et les classes d'objets. Lorsqu'un objet demande une action, une decision d'autorisation de l'action est prise ou non en fonction de la classe a laquelle appartient l'objet et de l'association entre les classes d'objets et les domaines proteges.

Fulltext Availability:

Detailed Description

Detailed Description

... example, the method of the policy object which returns the permissions associated with a code **identifiant** is invoked passing the code **identifiant** , " file://somesource" 64 somekey," as a parameter. The

policy object returns a **permissions** container object containing all the **permissions** associated with the **code identifier** " **file** :Hsomesource" " somekey." **There** is only one **permission** associated with the **code identifier** 1 5 " **file** ://somesource" -" somekey", which is a **permission** to write to any **file** in **directory** "/tmp/*". Then protection domain object 282 is created and populated with the permission just mentioned.

Note the policy object may determine that no protection domain is defined for a **code identifier** . In this case, a default protection domain is provided. Typically, a default protection domain contains...

35/5,K/36 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0007926293 - Drawing available
WPI ACC NO: 1997-014536/
Related WPI Acc No: 1995-172668
XRPX Acc No: N1997-012565

Security control process method for data in processing system - using access control circuits for routing access requests, allowing temporary access to blocks of data associated with user identifier code and storing security record

Patent Assignee: HANOVER RES & DEV LTD (HANO-N)

Inventor: MURPHY F

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
IE 69547	B	19960918	IE 19922906	A	19921216	199702 B

Priority Applications (no., kind, date): IE 19922906 A 19921216

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
IE 69547	B	EN	13	2	

Alerting Abstract IE B

The method applies to several data processors connected in cluster. Each processor is connected to storage device and has memory circuit and data access control circuit. The method comprises several steps. First each processor stores a user identifier code and addresses for blocks of data which are addressable by a data device. The blocks of data are associated with the user identifier codes. Next a security **record** is stored, associated with a user identifier code. The **record** includes at least one other user **identifier** code. In combination, the indicator and the associated user identifier **code** in the security **record** specify additional access **rights** for the **data** device associated with the **record**.

The data access control circuit allows access to the blocks of data associated with the user identifier code upon receipt of an access request from a data device. The user interface transmits a request for access to additional blocks of data. The data access control circuit subsequently refers to the security record to determine which blocks of data may be accessed temporarily by the data device.

USE/ADVANTAGE - Allows appropriate access by departmental personnel to stored data, without too rigid security arrangements. Achieves control but with maximum flexibility.

Title Terms/Index Terms/Additional Words: SECURE; CONTROL; PROCESS; METHOD; DATA; SYSTEM; ACCESS; CIRCUIT; ROUTE; REQUEST; ALLOW; TEMPORARY; BLOCK; ASSOCIATE; USER; IDENTIFY; CODE; STORAGE; RECORD

Class Codes

International Classification (Main): G06F-012/14

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H01C2; T01-H08...

Alerting Abstract ...device. The blocks of data are associated with the user identifier codes. Next a security **record** is stored, associated with a user identifier code. The **record** includes at least one other user **identifier** code. In combination, the indicator and the associated user identifier **code** in the security **record** specify additional access **rights** for the **data** device associated with the **record**.

35/5,K/37 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0007138548 - Drawing available
WPI ACC NO: 1995-172668/
Related WPI Acc No: 1997-014536
XRPX Acc No: N1996-064648

Data security operation in multiprocessor shared memory system - using security record associated with user identifier code, for specifying additional access rights for device associated with record, and access control circuit

Patent Assignee: HANOVER RES & DEV LTD (HANO-N)
Inventor: MURPHY F

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
IE 62686	B3	19950222	IE 19922906	A	19921216	199523 B
			IE 1994767	A	19921216	

Priority Applications (no., kind, date): IE 1994767 A 19921216; IE 19922906 A 19921216

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
IE 62686	B3	EN	13	2	Division of application IE 19922906

Alerting Abstract IE B3

The data security control process method is carried out by a number of data processors connected in a cluster, each processor being connected to a storage device and having a memory circuit and a data access control circuit. Each processor stores in a storage device a user **identifier** code, and addresses for blocks of data which are addressable by a data device. The blocks of data are associated with the user identifier codes. A security **record** is stored in the storage device. The security **record** is associated with a user identifier code. The security **record** includes at least one other user identifier code. The indicator and the associated user identifier **code** in the security **record**, in combination, specify additional access **rights** for the **data** device associated with the security **record**.

The data access control circuit allows access to the blocks of data associated with the user identifier code upon receipt of an access request from a data device, and the user interface transmits a request for access to additional blocks of data and the data access control circuit subsequently referring to the security record to determine which blocks of data may be accessed temporarily by the data device.

ADVANTAGE - Achieves optimum advantages of strict access control and maximum flexibility to provide for efficient management of organisation.

Title Terms/Index Terms/Additional Words: DATA; SECURE; OPERATE; MULTIPROCESSOR; SHARE; MEMORY; SYSTEM; RECORD; ASSOCIATE; USER; IDENTIFY; CODE; SPECIFIED; ADD; ACCESS; DEVICE; CONTROL; CIRCUIT

Class Codes

International Classification (Main): G06F-012/14

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H01C2; T01-J12C...

Alerting Abstract ...and a data access control circuit. Each processor stores in a storage device a user **identifier** code, and addresses for blocks of data which are addressable by a data device. The blocks of data

are associated with the user identifier codes. A security **record** is stored in the storage device. The security **record** is associated with a user identifier code. Te security **record** includes at least one other user identifier code. The indicator and the associated user identifier **code** in the security **record** , in combination, specify additional access **rights** for the **data** device associated with the security **record** .

Set	Items	Description
S1	18124798	DOCUMENT? ? OR DOCUMENTATION? ? OR TEXT OR FILE OR FILES OR RECORD? ? OR ARTICLE? ? OR PAPER? ? OR THESIS OR THESES OR DISSERTATION? ? OR ESSAY? ? OR MANUSCRIPT? ? OR TRANSCRIPT? ? OR DATA OR DATASET? ? OR CONTENT? ?
S2	3159452	DATABASE? ? OR DB OR DBMS OR RDBMS OR OODB OR DATA()BASE? ? OR REPOSITOR? OR DIRECTORY OR DIRECTORIES OR TABLE? ? OR LIST? ? OR LISTING? ? OR RECORD? ? OR CATALOG? ? OR CATALOGUE? ? OR REGISTER? ? OR REGISTRY OR REGISTRIES OR ACL
S3	2274591	(ACCESS? OR SECURITY OR AUTHORI?E? ? OR AUTHORI?ING OR AUTHORI?ATION? ? OR AUTHENTICATE? ? OR AUTHENTICATING OR AUTHENTICATION) (3N) (LEVEL? ? OR CONTROL? OR LIMIT??? OR LIMITATION? ? OR RESTRICTION? ? OR RESTRICT??? OR MANAGE? ? OR MANAGING OR MANAGEMENT)
S4	14770	S1 (3N) (REGISTER OR REGISTERS OR REGISTERED)
S5	2050742	CHARACTER? ? OR STRING OR WORD OR WORDS OR CODE OR CODES OR LETTER? ?
S6	1329138	ID OR IDS OR IDENTIFIER? ? OR IDENTIFICATION
S7	3858	S6 (3N) (ADD OR ADDS OR ADDED OR ADDING OR ADDITION OR APPEND?? OR APPENDING OR INSERT?? OR INSERTING OR INSERTION? ? OR (PUT OR PUTTING OR PLACE? ? OR PLACING) () (IN OR INTO))
S8	250027	S5 (10N) S1
S9	1389430	S1 (10N) S2
S10	25	S8 (30W) S7
S11	0	S10 (30N) S3
S12	2614	S8 (30N) S3
S13	10107	S3 (10N) S5
S14	1102	S13 (10N) S1
S15	95	S14 (30N) (S9 OR S4)
S16	75	S15 NOT PY>2001
S17	71	RD (unique items)
S18	5	S15 (30N) S6
S19	3	S18 NOT PY>2001
S20	2	RD (unique items)
S21	3924	S8 (30N) S6
S22	57	S21 (30N) S3
S23	9	S22 (30N) (S9 OR S4)
S24	7	S23 NOT S20
S25	3	S24 NOT PY>2001
S26	3	RD (unique items)
File	8: Ei Compendex(R) 1970-2006/Sep W4	(c) 2006 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online 1861-2006/Sep	(c) 2006 ProQuest Info&Learning
File	65: Inside Conferences 1993-2006/Oct 05	(c) 2006 BLDSC all rts. reserv.
File	2: INSPEC 1898-2006/Sep W4	(c) 2006 Institution of Electrical Engineers
File	94: JICST-EPlus 1985-2006/Jul W1	(c) 2006 Japan Science and Tech Corp (JST)
File	111: TGG Natl. Newspaper Index (SM) 1979-2006/Sep 21	(c) 2006 The Gale Group
File	6: NTIS 1964-2006/Sep W4	(c) 2006 NTIS, Intl Cpyrghrt All Rights Res
File	144: Pascal 1973-2006/Sep W2	(c) 2006 INIST/CNRS
File	434: SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 2006 The Thomson Corp
File	34: SciSearch(R) Cited Ref Sci 1990-2006/Oct W1	(c) 2006 The Thomson Corp
File	62: SPIN(R) 1975-2006/Sep W3	(c) 2006 American Institute of Physics
File	99: Wilson Appl. Sci & Tech Abs 1983-2006/Jul	(c) 2006 The HW Wilson Co.
File	95: TEME-Technology & Management 1989-2006/Oct W1	

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File 56: Computer and Information Systems Abstracts 1966-2006/Sep
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(c) 2002 The Gale Group
File 438: Library Lit. & Info. Science 1984-2006/Sep
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20/5/2 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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12320770 PASCAL No.: 95-0559803

Electronic marking and identification techniques to discourage document copying

BRASSIL J T; LOW S; MAXEMCHUK N F; O GORMAN L

AT&T Bell Lab, Murray Hill NJ, USA

Journal: IEEE Journal on Selected Areas in Communications, 1995, 13 (8)
1495-1504

ISSN: 0733-8716 CODEN: ISACEM Availability: INIST-222 Z

No. of Refs.: 22 Refs.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: USA

Language: English

Modern computer networks make it possible to distribute documents quickly and economically by electronic means rather than by conventional paper means. However, the widespread adoption of electronic distribution of copyrighted material is currently impeded by the ease of unauthorized copying and dissemination. In this paper we propose techniques that discourage unauthorized distribution by embedding each document with a unique codeword. Our encoding techniques are indiscernible by readers, yet enable us to identify the sanctioned recipient of a document by examination of a recovered document. We propose three coding methods, describe one in detail, and present experimental results showing that our identification techniques are highly reliable, even after documents have been photocopied.

English Descriptors: Electronic marking; **Document** copying; Copyrighted materials; **Document** embedding; **Code word** ; Application; Computer networks; **Security of data** ; **Identification (control systems)**; Encoding (symbols); Photocopying; **Database** systems; Cryptography; **Data** communication systems; Robustness (control systems); Spurious signal noise; Electronic publishing

French Descriptors: Application; Reseau ordinateur; Securite donnee; Identification systeme; Codage symbolique; Photocopie; Systeme base donnee; Cryptographie; Systeme communication donnee; Robustesse systeme commande; Bruit parasite signal; Edition electronique

Classification Codes: 001D02C; 001D00C; 001D03J; 001D02D; 001D02B07D;
001D02B07B



document access control (character OR code)

- 2001

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[Iterative detection in **code**-division multiple-**access** with error **control** coding - group of 3 »](#)

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[Design and implementation of an **access control** processor for XML documents - group of 8 »](#)

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... are specified by using the wild-card **character**. * ... whether information was hidden
by **access control** enforcement or was simply missing in the original **document**. ...
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[Securing XML Documents - group of 5 »](#)

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[Certificate-based **Access Control** for Widely Distributed Resources - group of 11 »](#)

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Design and implementation of an access control processor for XML documents

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Abstract

More and more information is distributed in XML format, both on corporate Intranets and on the global Net. In this paper an *Access Control System* for XML is described allowing for definition and enforcement of access restrictions directly on the structure and content of XML documents, thus providing a simple and effective way for users to protect information at the same granularity level provided by the language itself. © 2000 Published by Elsevier Science B.V. All rights reserved.

Keywords: Security; Access control model; XML

1. Introduction

As more and more information is made available in *eXtensible Markup Language* (XML) format, both on corporate Intranets and on the global Net, concerns are being raised by developers and end-users about XML security problems. Early research work about XML was not directly related to access control and security, because XML was initially introduced as a data format for documents; therefore, many researchers assumed well-known techniques for securing documents to be straightforwardly applicable to XML data. But the way XML is being positioned

has caused some to question if additional measures will be necessary.

For example, in the scenario of the oncoming FASTER (*Flexible Access to Statistics, Tables, and Electronic Resources*) project, end-users will be able to control their interaction with Web sites by pulling the information they are interested in out of dynamically generated XML documents. However, different users may well have different interests or access authorizations, and XML enabled servers will need to know which data each user should get, at a finer level of granularity than whole documents. In other words, some FASTER applications will need to block or allow access to entire XML instances, while others will control access at the tag level. The control residing at the tag level is particularly important in the view of wider use of the *XLink* and *XPointer* standards, which enable applications to re-

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Regulating access to XML documents

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↑ ABSTRACT

In this paper, our objective is to define a security model for regulating access to XML documents. Our model offers a security policy with a great expressive power. An XML document is represented by a tree. Nodes of this tree are of different type (element, attribute, text, comment...etc). The smallest protection granularity of our model is the node, that is, authorisation rules granting or denying access to a single node can be defined. The authorisation rules related to a specific XML document are first defined on a separate Authorisation sheet. This Authorisation sheet is then translated into an XSLT sheet. If a user requests access to the XML document then the XSLT processor uses the XSLT sheet to provide the user with a view of the XML document which is compatible with his rights.

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